

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 January 2006 (05.01.2006)

PCT

(10) International Publication Number
WO 2006/001235 A1

(51) International Patent Classification⁷: **G02B 26/10**,
B41J 2/44, H04N 1/036, 1/113

(21) International Application Number:
PCT/JP2005/01 1215

(22) International Filing Date: 14 June 2005 (14.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-192338 29 June 2004 (29.06.2004) JP
2005-135499 9 May 2005 (09.05.2005) JP

(71) Applicant (for all designated States except US): **CANON KABUSHIKI KAISHA** [JP/JP]; 3-30-2, Shimomaruko, Ohta-ku, Tokyo, 1468501 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FUJII, Kazunari** [JP/JP]; c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo, 1468501 (JP). **SHIMADA, Yasuhiro** [JP/JP]; c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo, 1468501 (JP).

(74) Agents: **OKABE, Masao** et al; No. 602, Fuji Bldg. 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 1000005 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

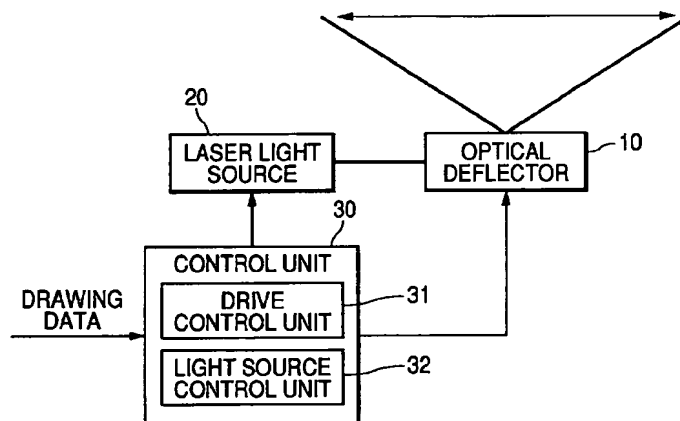
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR CONTROLLING IMAGE-FORMING APPARATUS



(57) Abstract: Even in an image-forming apparatus including an optical deflection apparatus using a light source such as a high-power laser light source, a variation in temperature of an optical deflector due to modulation of deflected light based on drawing data is compensated to maintain a preferable oscillation state of the optical deflection apparatus. The optical deflection apparatus includes an optical deflector in which an oscillator is supported by an elastic support member to be oscillatable about a support substrate and at least one light source, and the optical deflection apparatus is controlled such that total power of light emitted from the light source to the optical deflector within each of a plurality of divided time regions corresponding to specific times of equal lengths becomes a predetermined power. A changed temperature of the optical deflector which is caused due to a variation in power of light emitted from the light source to the optical deflector may be corrected by a temperature control element based on the power of the light emitted from the light source to the optical deflector within the specific time to control the optical deflection apparatus.

WO 2006/001235 A1